

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV. 12-29-99)		ATTORNEY'S DOCKET NO. HER07 P-106
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 09/647209
INTERNATIONAL APPLICATION NO. PCT/EP00/00555	INTERNATIONAL FILING DATE 25 January 2000	PRIORITY DATE CLAIMED 28 January 1999
TITLE OF INVENTION MARKINGS ON MINERAL WOOL PRODUCTS IN PARTICULAR		
APPLICANT(S) FOR DO/EO/US Birgit Boge, Jurgen Trappmann, and Wolfgang Holstein		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)): <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)): <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11. to 16. below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: <ol style="list-style-type: none"> 1. Appointment of Domestic Representative 		

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US APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NO.	
09/647209		PCT/EP00/00555		430 Rec'd PCT/PTO 27 SEP 2000	

17. <input type="checkbox"/> The following fees are submitted: (REVISE FEES FOR SMALL ENTITY)				CALCULATIONS PTO USE ONLY																																																																		
BASIC NATIONAL FEE (37 CFR 1.492(a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$970.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$690.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(2)-(4) \$ 96.00				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">\$840.00</div> <div style="border: 1px solid black; padding: 5px;">\$</div>																																																																		
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 20%;"></th> </tr> <tr> <td>Total claims</td> <td>25 - 20 =</td> <td>5</td> <td>x \$ 18.00</td> <td>\$90.00</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$ 78.00</td> <td>\$</td> </tr> <tr> <td colspan="3"></td> <td>+ \$260.00</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS</td> <td>= \$930.00</td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28). </td> <td style="text-align: center;">+ \$</td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL</td> <td>= \$930.00</td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). </td> <td style="text-align: center;">\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL NATIONAL FEE</td> <td>= \$</td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property </td> <td style="text-align: center;">+ \$40.00</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL FEES ENCLOSED</td> <td>= \$970.00</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">Amount to be refunded:</td> <td style="text-align: center;">\$</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">charged:</td> <td style="text-align: center;">\$</td> </tr> </table>						CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		Total claims	25 - 20 =	5	x \$ 18.00	\$90.00	Independent claims	2 - 3 =	0	x \$ 78.00	\$				+ \$260.00	\$	TOTAL OF ABOVE CALCULATIONS				= \$930.00	Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				+ \$	SUBTOTAL				= \$930.00	Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	TOTAL NATIONAL FEE				= \$	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$40.00	TOTAL FEES ENCLOSED				= \$970.00					Amount to be refunded:	\$				
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<p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$970.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 22-0190 in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 22-0190. A duplicate copy of this sheet is enclosed.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> Anthony A. Bisulca Van Dyke, Gardner, Linn & Burkhart, LLP Post Office Box 888695 Grand Rapids, Michigan 49588-8695 Telephone: (616) 975-5500 Facsimile: (616) 975-5505 </div> <div style="width: 45%; text-align: right;"> <div style="text-align: center; margin-bottom: 10px;"> (signature) </div> Anthony A. Bisulca Registration No. 40 913 </div> </div>																																																																						

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Birgit Boge, Jurgen Trappmann, and Wolfgang Holstein
International Filing Date: January 25, 2000
International App No.: PCT/EP00/00555
For MARKINGS ON MINERAL WOOL PRODUCTS IN
PARTICULAR

BOX PCT
Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination of the above-referenced application, please amend the
Application as follows:

IN THE CLAIMS

Please cancel claims 3 through 7, and add new claims 8 through 25 as follows:

8. Insulation material sheet as defined in [claims] claim 1 [or 2], characterized in that said markings are arranged with intervals transversely to the long axis of said insulation material sheet in a row and a plurality of rows is arranged over the longitudinal direction of said insulation material sheet [(1)] with uniform longitudinal intervals or with a regularly repeating distance pattern with respect to one another.

9. Insulation material sheet as defined in [claims 1 or] claim 2, characterized in that said markings are arranged with intervals transversely to the long axis of said insulation material sheet in a row and a plurality of rows is arranged over the longitudinal direction of said insulation material sheet [(1)] with uniform longitudinal intervals or with a regularly repeating distance pattern with respect to one another.

10. Insulation material sheet as defined in claim 1 [one of the preceding claims] , characterized in that said marking [(2)] each is formed by a line directed in oblique direction to the long axis of said insulation material sheet [(1)].

11. Insulation material sheet as defined in claim 1 [one of the preceding claims], characterized in that said marking [(2)] each is formed by a line directed in oblique direction to the long axis of said insulation material sheet [(1)].

12. Insulation material sheet as defined in claim 8 [one of the preceding claims], characterized in that said marking [(2)] each is formed by a line directed in oblique direction to the long axis of said insulation material sheet [(1)].

13. Insulation material sheet as defined in claim 9 [one of the preceding claims], characterized in that said marking [(2)] each is formed by a line directed in oblique direction to the long axis of said insulation material sheet [(1)].

14. Insulation material sheet as defined in claim 1 [one of the preceding claims], characterized in that said marking [(2a, 2b)] is formed by geometrical patterns, in particular trapezoid, square, rectangle, triangle or the like.

15. Insulation material sheet as defined in claim 2 [one of the preceding claims], characterized in that said marking [(2a, 2b)] is formed by geometrical patterns, in particular trapezoid, square, rectangle, triangle or the like.

16. Insulation material sheet as defined in claim 8 [one of the preceding claims], characterized in that said marking [(2a, 2b)] is formed by geometrical patterns, in particular trapezoid, square, rectangle, triangle or the like.

17. Insulation material sheet as defined in claim 9 [one of the preceding claims], characterized in that said marking [(2a, 2b)] is formed by geometrical patterns, in particular trapezoid, square, rectangle, triangle or the like.

18. Insulation material sheet as defined in claim 1 [one of the preceding claims], characterized in that said markings are formed by dot-shaped formations.

19. Insulation material sheet as defined in claim 2 [one of the preceding claims], characterized in that said markings are formed by dot-shaped formations.

20. Insulation material sheet as defined in claim 8 [one of the preceding claims], characterized in that said markings are formed by dot-shaped formations.
21. Insulation material sheet as defined in claim 9 [one of the preceding claims], characterized in that said markings are formed by dot-shaped formations.
22. Insulation material sheet as defined in claim 1 [one of the preceding claims], characterized in that said markings are formed by lines arranged obliquely to the long axis and/or in direction of the long axis and/or normally to the long axis or geometrical [patters] patterns which are arranged in transverse direction to the long axis with intervals, wherein the patterns formed by several markings are regularly repeated in direction of the long axis.
23. Insulation material sheet as defined in claim 2 [one of the preceding claims], characterized in that said markings are formed by lines arranged obliquely to the long axis and/or in direction of the long axis and/or normally to the long axis or geometrical [patters] patterns which are arranged in transverse direction to the long axis with intervals, wherein the patterns formed by several markings are regularly repeated in direction of the long axis.
24. Insulation material sheet as defined in claim 8 [one of the preceding claims], characterized in that said markings are formed by lines arranged obliquely to the long axis and/or in direction of the long axis and/or normally to the long axis or geometrical [patters] patterns which are arranged in transverse direction to the long axis with intervals, wherein the patterns formed by several markings are regularly repeated in direction of the long axis.
25. Insulation material sheet as defined in claim 9 [one of the preceding claims], characterized in that said markings are formed by lines arranged obliquely to the long axis and/or in direction of the long axis and/or normally to the long axis or geometrical [patters] patterns which are arranged in transverse direction to the long axis with intervals, wherein the patterns formed by several markings are regularly repeated in direction of the long axis.

REMARKS

Please enter this Preliminary Amendment prior to calculating fees. Claims 3 through 7 have been cancelled herein. New claims 8 through 25 are selected ones of now cancelled claims 3 through 7 which have been rewritten to remove multiple dependencies. No new

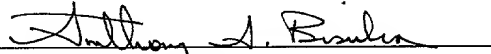
matter has been added. Examination on the basis of claims 1, 2, and 8-25 is respectfully solicited.

Respectfully submitted,

SAINT-GOBAIN ISOVER
LES MIROIRS

By: Van Dyke, Gardner, Linn &
Burkhart

Date: September 27, 2000



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MARKINGS ON MINERAL WOOL PRODUCTS

The invention pertains to markings in plane mineral wool products in particular, mineral wool sheets and/or mineral wool pates in particular, which can serve as cutting or orientation help and also, however, for product identification.

For so-called clamping felts in particular, modular marking lines are known which are arranged at regular intervals with one another across to the longitudinal direction of an insulation material sheet seen in longitudinal direction of the insulation material sheet at intervals of e.g. 100 mm. These known marking lines are generated using hot-air nozzles causing local heating with corresponding burned-in markings on the surfaces of an insulation material sheet. In particular, such marking lines are formed intermittently. In the clamping felts these clamping marking lines have the meaning of offering the consumer a cutting aid. In particular, when the insulation material sheets are used for rafter insulation where rafter intervals with different distances have to be considered, after measurement of the rafter interval a section corresponding to the interval is cut from the insulation material sheet and then is placed in transverse direction to the rafter into the interval between the rafters. This rafter insulation in substantial volume gained ground on the market, wherein laying is carried out under the principle that a plate is cut from the roll, which then is inserted between the rafters with correct pressure fit and is held by clamping effect.

The further developments described herein account for the point of view that on the market more and more it is attempted to individualize the own products also with the aid of the markings, wherein, however, nevertheless suitability of these markings as cutting and orientation aid is to be maintained. In addition, also the point of view of universality has to be taken into account, i.e. mineral wool products are used for other cases of application

not only schematically but they must be ready and prepared for use for other applications in which e.g. cutting and orientation aids are to be made available also in other directions, e.g. for cutting triangles or geometrical figures.

The invention is characterized by the features contained in the independent claims, preferred further developments resulting from the features from the subsequent subclaims.

As solution the invention provides for the following marking variations, wherein the markings can be applied or provided for by hot nozzles but also by coloring or by other means and methods.

In the following preferred embodiments are explained as examples only with reference to the figs. 1 to 11 which show sections of insulation material sheets in top view with corresponding marking patterns. Herein it is a matter of a purely schematic representation which, however, records the regular structure wherein, however, for the sake of simplicity the structures are shown over a part of the shown insulation material sheet section only, this having been done for reason of simplification of drawing only. Of course, patterns result over the entire length of the insulation material sheet at corresponding intervals.

First solution under Fig. 1:

The insulation material sheet 1 out of mineral wool shows modular markings over the length of the insulation material width, wherein the markings only partly are shown over the length, in the kind of markings and/or stroke lines 2 which are arranged inclined with an angle α to the longitudinal direction of the insulation material sheet and also intervals to one another.

In the shown embodiment three marking strokes are shown over the width, wherein preferably one stroke marking 2 each is respectively arranged from each long rim and the third stroke marking is arranged in the area of the middle of the insulation material sheet.

In this embodiment the upper and lower ends of the stroke markings of the same lengths which if they are mutually connected by a straight line are arranged on a common imaginary transverse line perpendicular to the long rim of the insulation material sheet on one hand serve as cutting aid for cuts perpendicular to the long rims of the insulation material sheet but also as cutting aid for diagonal cuts.

Of course, also more than three stroke markings can be provided for over the width of the insulation material sheet, this being particularly suitable chosen in correspondence with the given widths of the insulation material sheet.

Second solution under Fig. 2:

Here, too, the markings 2 for representation only are arranged in the lower area, wherein here like in all other modifications it has to be assumed that these are arranged in modular manner, i.e. uniformly repeating, over the entire length of the mineral wool product, here the insulation material sheet.

The markings 2 here are formed by geometrical patterns and forms, in particular squares, triangles, rectangles, polygons in any form, which are arranged periodically and/or modularly, respectively, along and across the insulation material sheet, i.e. transverse to the longitudinal extension and in longitudinal extension of the insulation material sheet.

Here, in case of square markings the sides of the square extending transverse to the long rims form the cutting and orientation aid.

These squares permit an optically favorable appearance and also allow a corresponding coloring, wherein the squares also can be used for product information and manufacturer information.

Third solution under Fig. 3:

This solution is similar to Fig. 2 as far as the arrangement of the markings is concerned which here are required or formed, respectively, in the kind of dot-shaped formations. These dot-shaped formations or dots 2 when connected one with the next and transversally by imaginative lines so-to-speak form parallel long lines and parallel transverse lines, the long lines extending in direction of the longitudinal extension of the insulation material sheet and the transverse lines across thereto.

The dot-shaped formations 2 herein serve as cutting aid once in longitudinal direction, once in transverse direction, but also in direction of the diagonal as is symbolized by the imaginative line of intersection 3. Such diagonal cuts more frequently occur in roof treatment.

Fourth solution under Fig. 4:

This fourth solution is characterized by a variation of different marking groups, here in total 2 groups which are repeated regularly.

The first marking group is formed by stroke markings 2a extending in longitudinal direction whose upper or lower ends result in an imaginative line across to the longitudinal extension of the insulation material sheet and to that extent permit a cross-section whose longitudinal orientation permit a longitudinal cut. Between two of these groups of stroke markings 2a which each are formed of three rows on top of one another, diagonally extending stroke markings 2b are arranged whose upper lower ends also form imaginative transverse marking lines which, however, also permit a diagonal cut, as is shown by the imaginative line of intersection 3.

Also if here in transverse direction three stroke markings 2a are respectively shown in three row one on top of the other and three rows of stroke markings 2b are shown, the

number of stroke markings and there rows can of course be varied. This also is true for the number of varying groups.

Fifth solution under Fig. 5:

The modification under Fig. 5 again shows geometrical patterns one beside the next in transverse direction, here three trapezoids 2, and in rows one on top of the other, wherein the geometrical patterns due to the lines in longitudinal and transverse direction of the insulation material sheet permit transversal and longitudinal cuts in particular, the obliquely extending lines, however, i.e. the lines extending with an angle to the longitudinal direction also permitting diagonal and oblique cuts.

Sixth solution under Fig. 6:

In this embodiment the markings again are determined by geometrical patterns 2a and 2b which differ from one another but are repeated. This embodiment again permits oblique cuts and also cutting wedges and the like.

Seventh solution under Fig. 7:

In this embodiment under Fig. 7 the obliquely extending markings 2 are made in the shape of girders or flags. This kind of geometrical patterns frequently can be found as firm label such that by these geometrical pattern so to speak the firm label is contained on the insulation material sheets or other mineral wool products in product-specific manner and simultaneously serves as cutting and orientation aid. Of course, also here it is possible to alternate the markings, namely regularly, such that also a change between geometrical form and firm label or product information, respectively, is possible. Here, also the letters of firm names e.g. or the firm name in total can be included here as modular markings.

Eighth solution under Fig. 8:

The markings under Fig. 8 are characterized by mutually crossing stroke markings 2a and 2b such that different diagonal cuts are possible but also transverse and longitudinal cuts due to the regular arrangement of the ends of the stroke markings in alignment with one another.

Ninth solution:

The embodiment modifications under solution 9 are characterized by markings in the kind of dot-like or geometrical patterns 2 or stroke markings 3 or continuous transverse marking lines 4, respectively, which are arranged with regular intervals to one another. In the left-hand embodiment under Fig. 9 on top at total of four rows one beside the other, of markings 2 are provided for. Here transverse cuts and longitudinal cuts but also diagonal cuts are possible.

The embodiment modification shown therebelow adjacent to the long rims comprises markings 2 arranged one on top of the other and aligned. Here, too, transverse cuts, longitudinal cuts and diagonal cuts are possible.

The central modification under Fig. 10 shows stroke markings 3 extending in longitudinal direction, here again transverse cuts and longitudinal cuts but also diagonal cuts being possible.

The modification shown on the right hand side under Fig. 11 shows continuous marking lines which permit transverse cuts in particular.

The elucidated solutions with their features are claimed individually and in combination with one another.

Patent Claims

1. Insulation material sheet which may be wound up to a roll, out of mineral wool for insulation of roofs, which is provided with markings distributed over the length of said insulation material sheet, which facilitate cutting-off of insulation material sections from said sheet by means of a separating cut, **characterized in that** said markings with an essential portion of their section are arranged on said insulation material sheet with an orientation directed in difference to the perpendicular to the long axis of said insulation material sheet and/or that at least a part of said markings distributed over said insulation material sheet is arranged on said insulation material sheet with an orientation directed in difference to the perpendicular to the long axis of said insulation material sheet and/or that said markings with respectively adjacent markings each are aligned such that the imaginative line between adjacent markings results in a straight line in oblique direction to the long axis of said insulation material sheet and/or that said markings are formed by plane formations, geometrical ones in particular and/or that at least a part of the markings is arranged crosswise to the longitudinal axis of the sheet.
2. Insulation material sheet which may be wound up to a roll, out of mineral wool for insulation of roofs, which is provided with markings distributed over the length of said insulation material sheet, which facilitate cutting-off of insulation material sections from said sheet by means of a separating cut, **characterized in that** said markings are formed by crosses several of which are arranged one beside the other with an interval on a perpendicular to the long axis of said insulation material sheet and that said groups of markings are arranged with intervals over the long axis of said insulation material sheet.
3. Insulation material sheet as defined in claims 1 or 2, **characterized in that** said markings are arranged with intervals transversely to the long axis of said insulation material sheet in a row and a plurality of rows is arranged over the longitudinal di-

rection of said insulation material sheet (1) with uniform longitudinal intervals or with a regularly repeating distance pattern with respect to one another.

4. Insulation material sheet as defined in one of the preceding claims, **characterized in that** said marking (2) each is formed by a line directed in oblique direction to the long axis of said insulation material sheet (1).
5. Insulation material sheet as defined in one of the preceding claims, **characterized in that** said marking (2a, 2b) is formed by geometrical patterns, in particular trapezoid, square, rectangle, triangle or the like.
6. Insulation material sheet as defined in one of the preceding claims, **characterized in that** said markings are formed by dot-shaped formations.
7. Insulation material sheet as defined in one of the preceding claims, **characterized in that** said markings are formed by lines arranged obliquely to the long axis and/or in direction of the long axis and/or normally to the long axis or geometrical patterns which are arranged in transverse direction to the long axis with intervals, wherein the patterns formed by several markings are regularly repeated in direction of the long axis.

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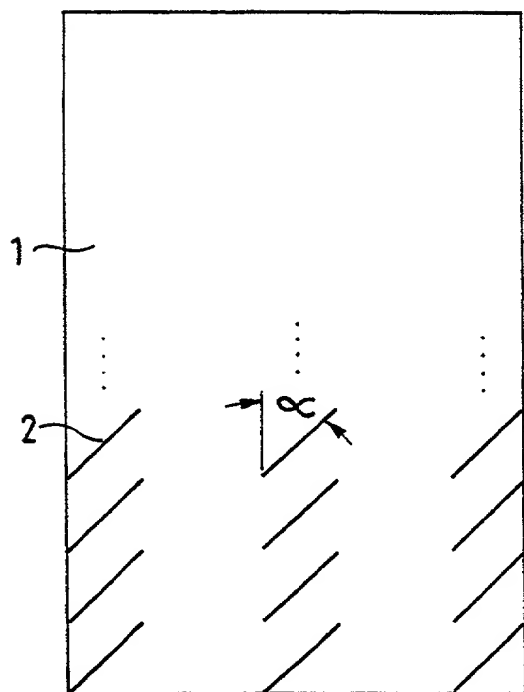


FIG. 1

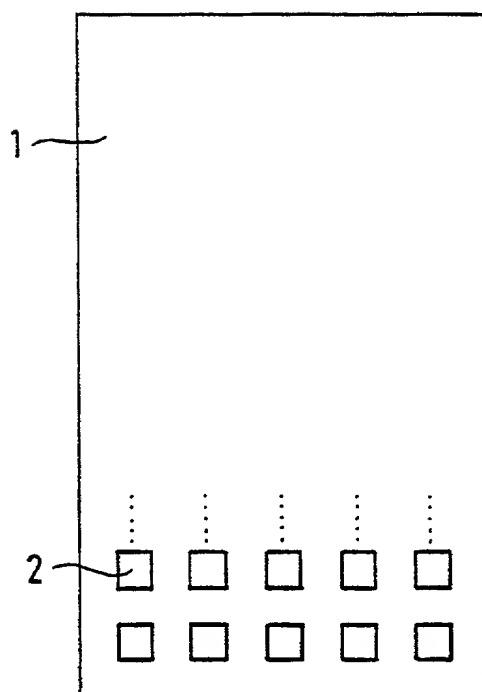


FIG. 2

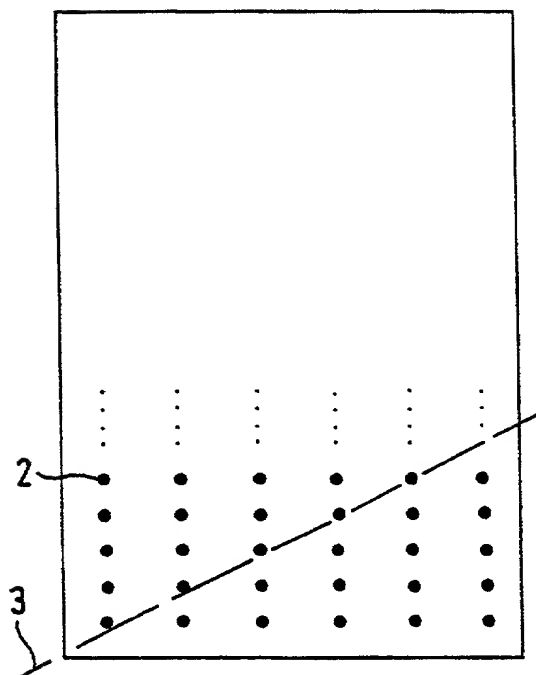


FIG. 3

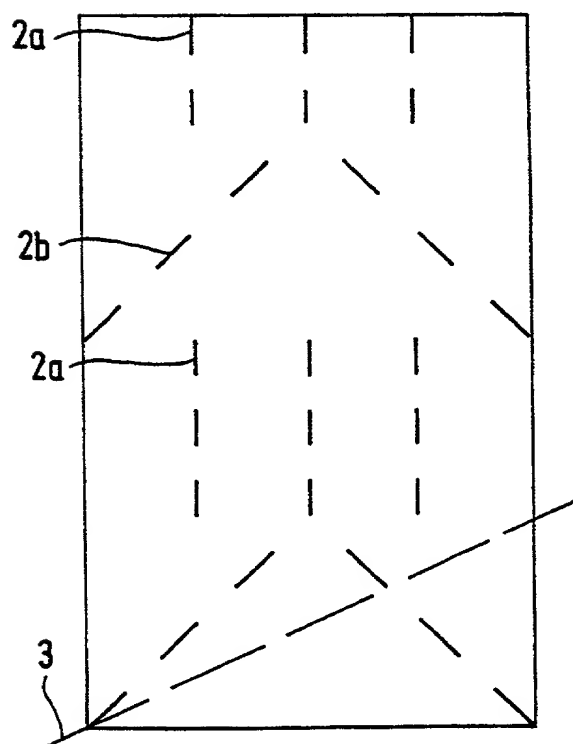


FIG. 4

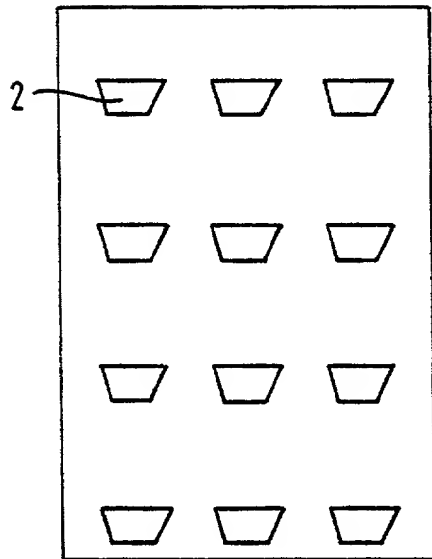


FIG. 5

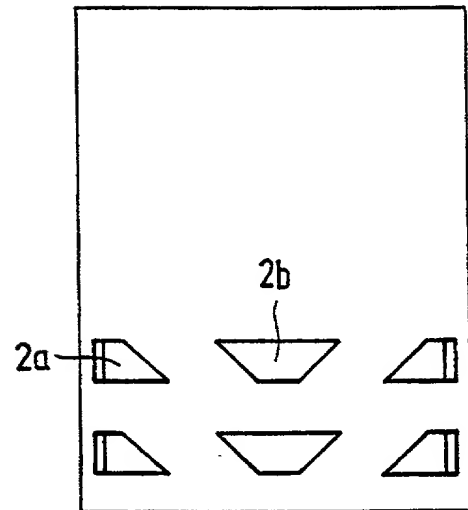


FIG. 6

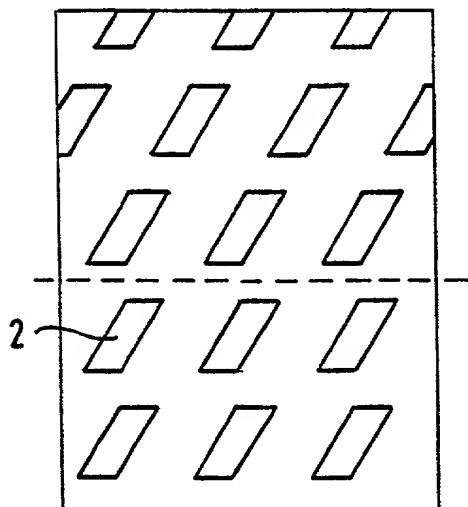


FIG. 7

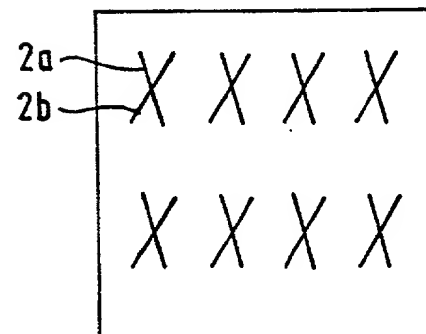


FIG. 8

FIG.9

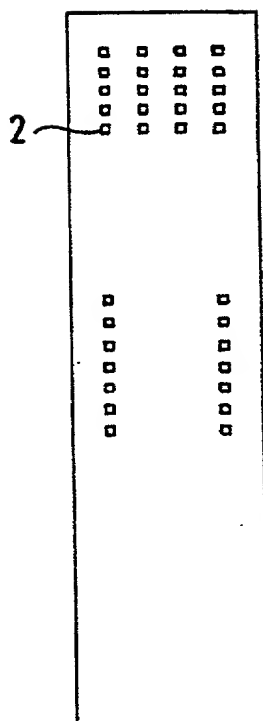


FIG.10

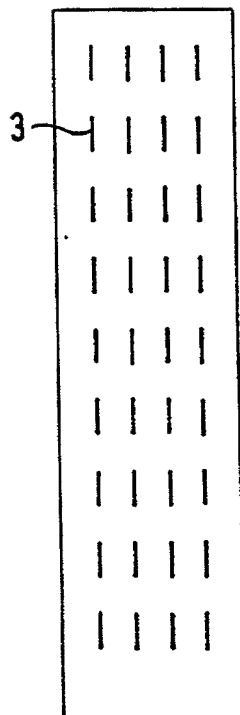
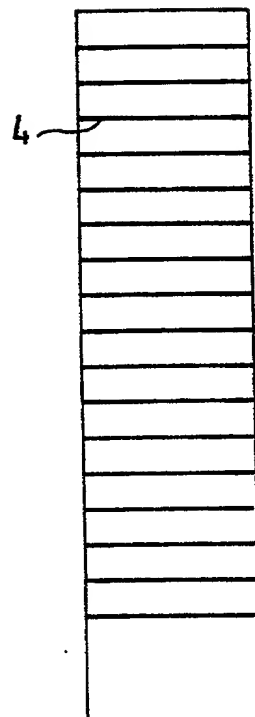


FIG.11



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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket No.	HER07 P106
	First Named Inventor	Birgit Boge, Jurgen Trappmann and Wolfgang Holstein
	COMPLETE IF KNOWN	
	Application No.	
	Filing Date	
	Group Art Unit	
	Examiner Name	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)		

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MARKINGS ON MINERAL WOOL PRODUCTS IN PARTICULAR*(Title of the Invention)*

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YY)

01/25/00

as United States Application No. or PCT International

Application No.

PCT/EP00/00555

and was amended on (MM/DD/YY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35 United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
199 03 370.6	Germany	01/28/99	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority sheet PTO/SB/02B attached hereto:

I hereby claim benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor.					
Given Name	Jürgen	Middle Initial		Family Name	Trappmann	Suffix e.g., Jr.	
Inventor's Signature					Date	09/11/00	
Residence: City	68723 Plankstadt	State		Country	Germany	Citizenship	German
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Post Office Address	Lessingstr. 25						
City	68723 Plankstadt	State		Zip		Country	Germany

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor.					
Given Name	Wolfgang	Middle Initial		Family Name	Holstein	Suffix e.g., Jr.	
Inventor's Signature					Date	09/11/00	
Residence: City	35315 Homberg	State		Country	Germany	Citizenship	German
Post Office Address	Herderstr. 2						
Post Office Address	Herderstr. 2						
City	35315 Homberg	State		Zip		Country	Germany

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor.					
Given Name		Middle Initial		Family Name		Suffix e.g., Jr.	
Inventor's Signature					Date		
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		Zip		Country	

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DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Patent Number	Parent Filing Date (MM/DD/YY)	Parent Patent Number (if applicable)
PCT/EP00/00555	01/25/00	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number →

OR

Place Customer No.
Bar Code Label Here

☒ Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
Daniel Van Dyke	25 046	Catherine S. Collins	37 599
Donald S. Gardner	25 975	Matthew L. Goska	42 594
Terence J. Linn	30 283	Anthony A. Bisulca	40 913
Frederick S. Burkhardt	29 288	Timothy A. Flory	42 540

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer No. or Bar Code Label

OR ☒ Correspondence address below

Name	Anthony A. Bisulca		
Name	Van Dyke, Gardner, Linn & Burkhardt, LLP		
Address	Post Office Box 888695		
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ZIP	49588-8695		
Country	United States of America	Telephone	616/975-5500
Fax	616/975-5505		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor.

Given Name	Birgit	Middle Initial		Family Name	Boge	Suffix e.g., Jr.	
Inventor's Signature	Birgit Boge				Date	09/11/00	
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Post Office Address	Tannhauserring 174						
Post Office Address	Tannhauserring 174						
City	68199 Mannheim	State		Zip		Country	Germany

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

09/647209
430 Rec'd PCT/PTO 27 SEP 2000

PATENT
HER07 P-106

Express Mail No. EL508179459US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Birgit Boge, Jurgen Trappmann, and Wolfgang Holstein
International Filing Date: January 25, 2000
International App No.: PCT/EP00/00555
Filed: January 25, 2000
For: MARKINGS ON MINERAL WOOL PRODUCTS IN
PARTICULAR

APPOINTMENT OF A DOMESTIC REPRESENTATIVE

The undersigned hereby appoints:

Van Dyke, Gardner, Linn & Burkhardt, LLP
2851 Charlevoix Drive, S.E., Suite 207
Post Office Box 888695
Grand Rapids, Michigan 49588-8695
Telephone No.: 616/975-5500
Facsimile No.: 616/975-5505

and the individual patent attorneys and patent agents at such patent law firm; namely:

Daniel Van Dyke, Reg. No. 25 046;
Donald S. Gardner, Reg. No. 25 975;
Terence J. Linn, Reg. No. 30 283;
Frederick S. Burkhardt, Reg. No. 29 288;
Catherine S. Collins, Reg. No. 37 599;
Matthew L. Goska, Reg. No. 42 594;
Anthony A. Bisulca, Reg. No. 40 913;
Timothy A. Flory, Reg. No. 42 540.

to prosecute this application, to transact all business before the United States Patent and Trademark Office regarding the above-identified application, and to receive the patent.

I am the assignee of the entire interest.

Respectfully submitted,

SAINT-GOBAIN ISOVER
Siège Social : 18, avenue d'Alsace
92400 COURBEVOIE

SAINT-GOBAIN ISOVER LES MIROIRS - 92096 LA DÉFENSE CEDEX

Date: 14th September 2000

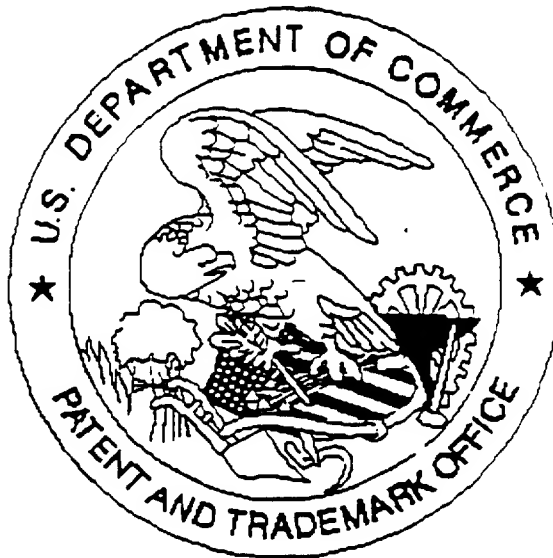
By: _____

Signature: _____

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J.Y. AUBE
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